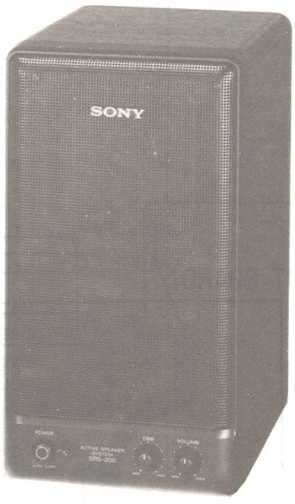
SRS-200

SERVICE MANUAL



US Model
Canadian Model
AEP Model
UK Model
E Model

SPECIFICATIONS

Amplifier section

Power output — 27.5 W + 27.5 W (at 10% harmonic distortion, 1 kHz)
Input — L-shaped stereo miniplug
Input impedance (1 kHz)
PHONES: 100 ohms
LINE: 47 kilohms
Output — Minijack

Speaker section

System — Full-range, closed type
Speaker unit — Full range: 106 × 106 mm (4 1/4 × 4 1/4 inches),
Passive radiator: 106 × 106 mm (4 1/4 × 4 1/4 inches)

General

Power requirements
US, Canadian model: 120 V AC, 60 Hz
UK model: 240 V AC, 50 Hz
AEP model: 220 V AC, 50 Hz
E model: 110 – 120 V or 220 – 240 V AC, 50/60 Hz

Power consumption
US model: 24 W
Canadian model: 36 W
UK model: 64 W
AEP, E model: 22 W
Dimensions — Approx. 150 × 270 × 195 mm (w/h/d) (6 × 10 3/4 × 7 3/4 inches)
not incl. projecting parts and controls
Weight — Approx 3.8 kg (8.3 lb) per speaker
Supplied accessories
Blind seal (4) (Canadian, AEP, UK, E model)
Cushion (8)
Adaptor cord (1)
Plug adaptor (1)

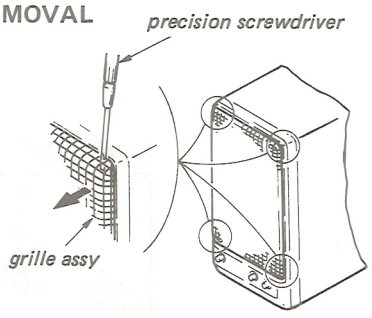
MICROFILM

ACTIVE SPEAKER SYSTEM

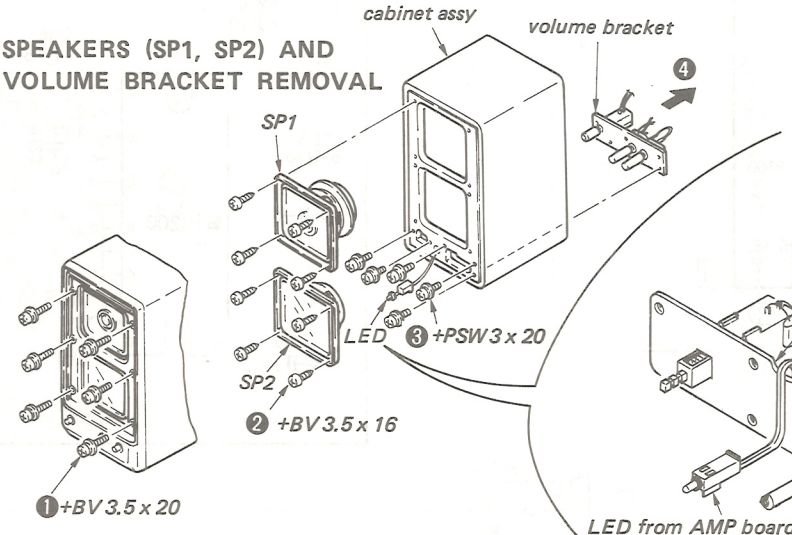
SONY®

SECTION 1
DISASSEMBLY

GRILLE ASSY REMOVAL

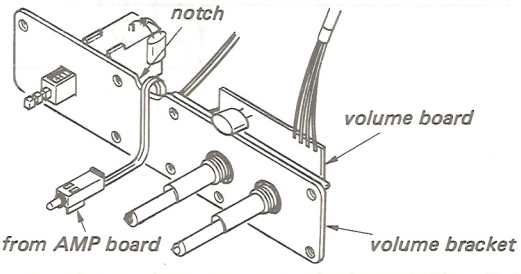


SPEAKERS (SP1, SP2) AND VOLUME BRACKET REMOVAL



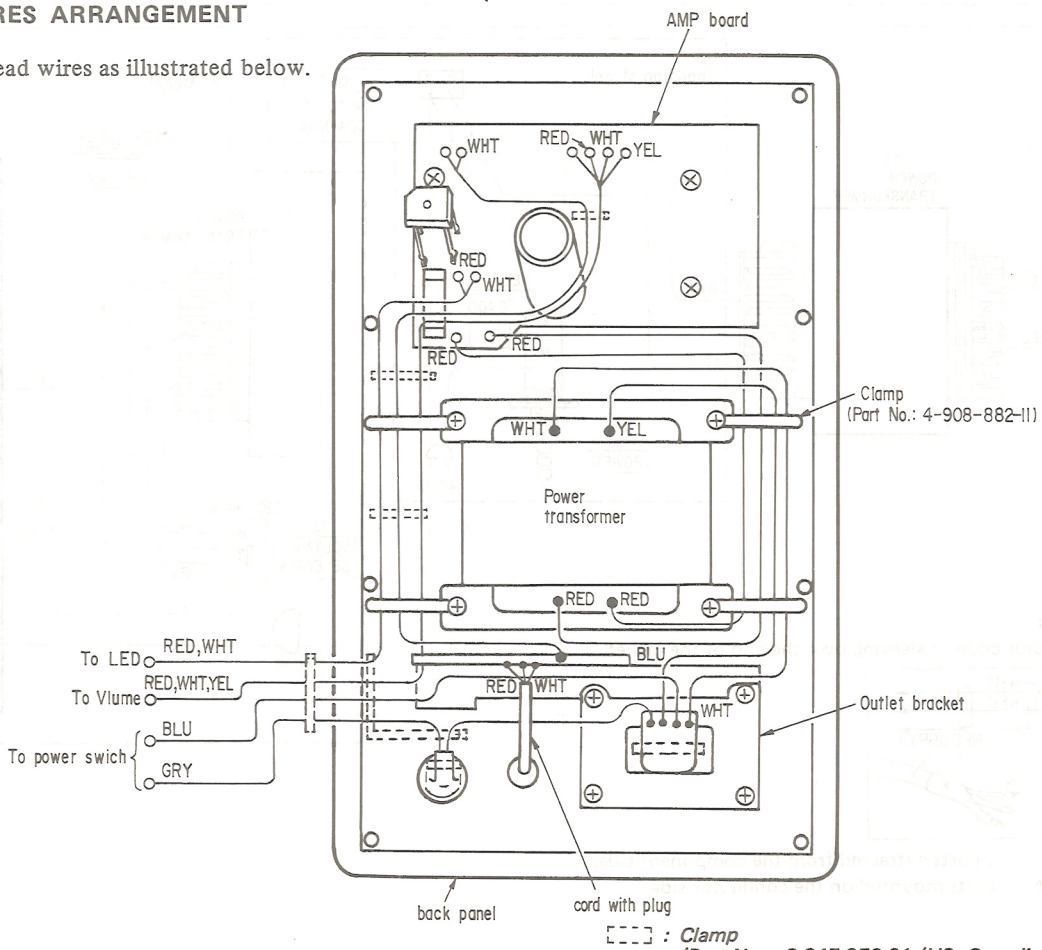
Note on installing LED

Pass LED from AMP board over the notch of volume bracket and insert it in the hole of cabinet assy.



LEAD WIRES ARRANGEMENT

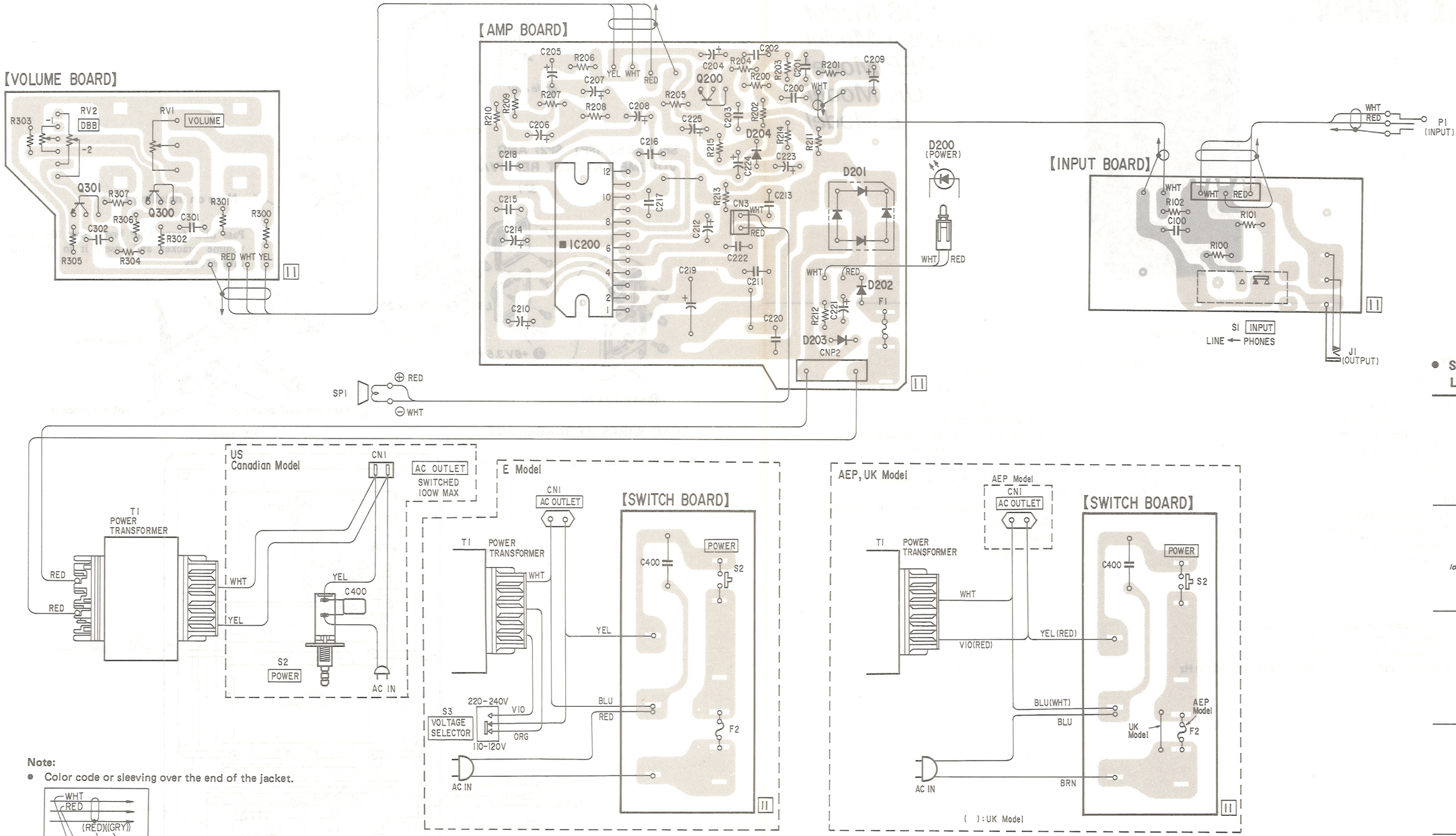
- Arrange lead wires as illustrated below.



: Clamp
(Part No.: 3-847-356-01 (US, Canadian model)
3-701-748-00 (AEP, UK, E model)

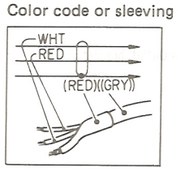
SECTION 2
DIAGRAMS

2-1. PRINTED WIRING BOARDS



Note:

- Color code or sleeving over the end of the jacket.



- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.

- **Semiconductor Lead Layouts**

RB402

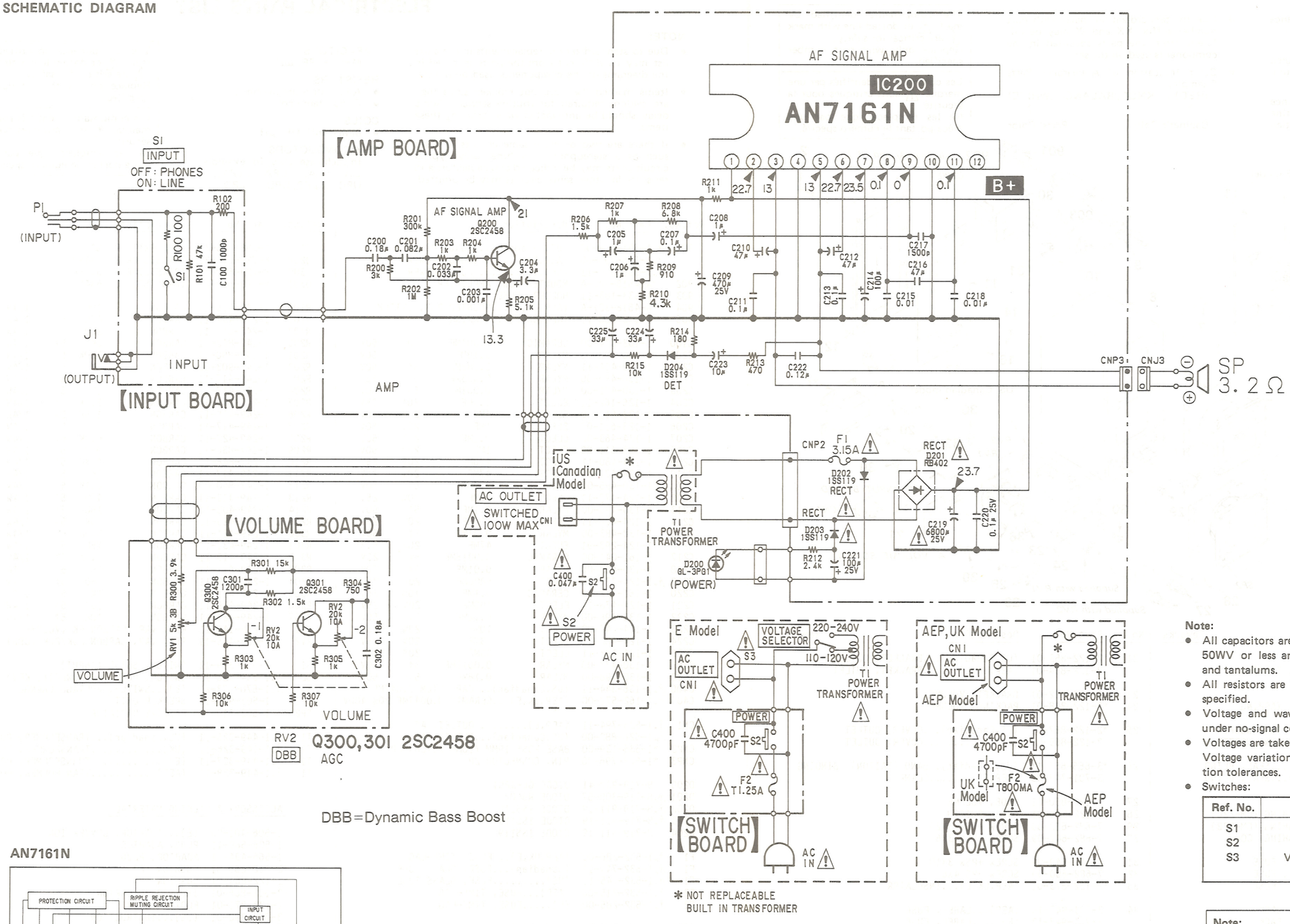
GL-3PG1

1SS119

2SC634SP

AN7161N

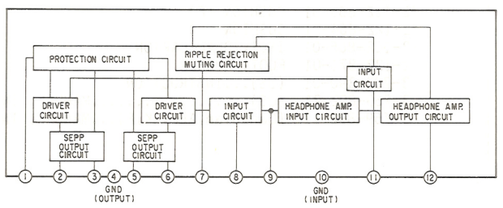
2-2. SCHEMATIC DIAGRAM



DBB=Dynamic Bass Boost

* NOT REPLACEABLE BUILT IN TRANSFORMER

AN7161N



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 kΩ/V). Voltage variations may be noted due to normal production tolerances.
- Switches:

Ref. No.	Switch	Position
S1	INPUT	PHONES
S2	POWER	OFF
S3	VOLTAGE SELECTOR (E model only)	110–120V

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

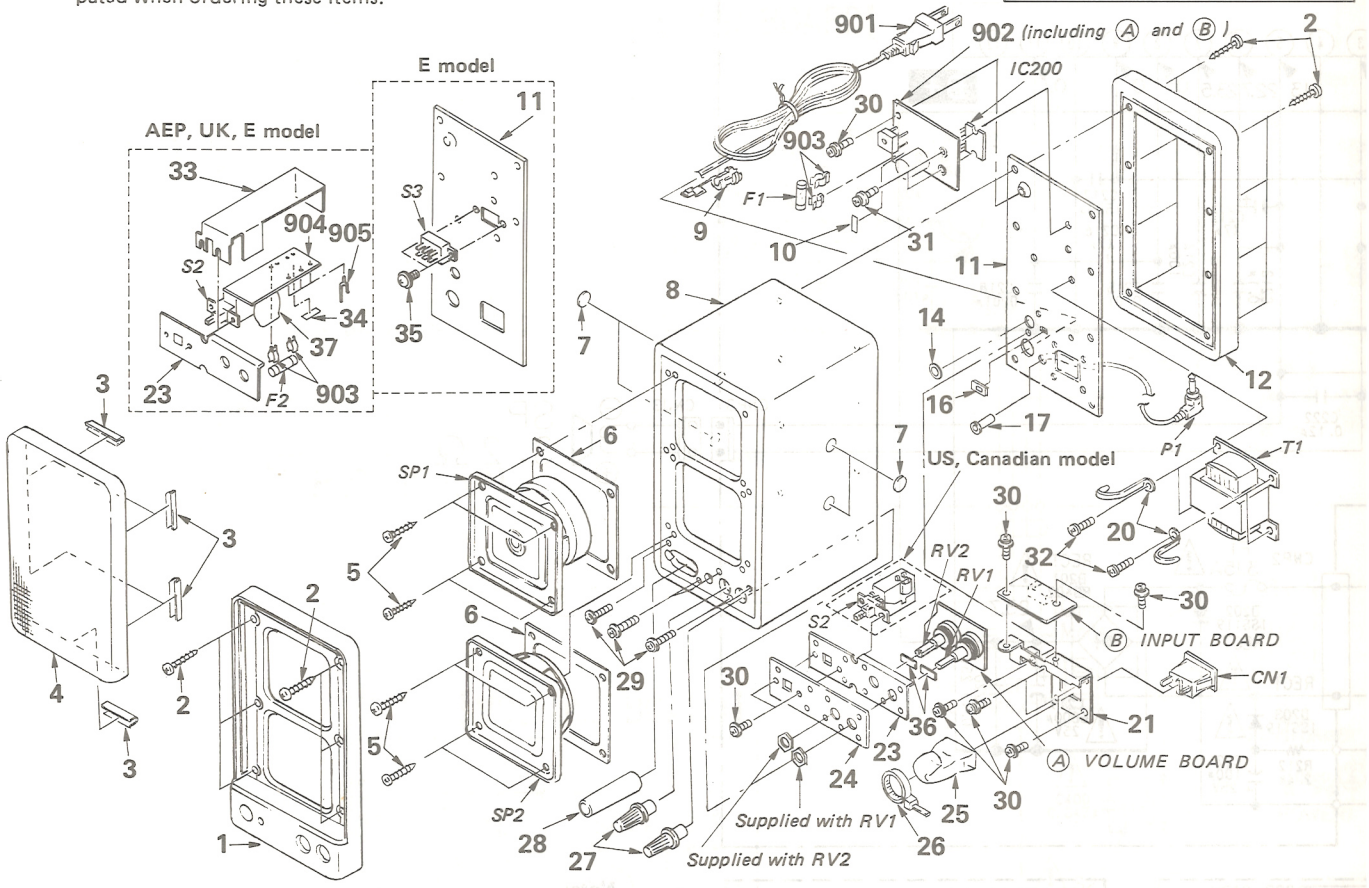
SECTION 3
EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.



No.	Part No.	Description	Remarks
1	2-122-860-01	PANEL, FRONT	
2	4-874-614-51	SCREW (4) (3.5X20), TAPPING	
3	9-911-844-XX	CUSHION, GRILLE	
4	X-2122-812-1	GRILLE ASSY	
5	4-874-614-61	SCREW (4) (3.5X16), TAPPING	
6	3-819-833-01	(AEP,UK,E).....CUSHION, WOOFER	
	3-897-029-01	(US,Canadian)...CUSHION, WOOFER	
7	3-897-010-01	(US).....SEAL, BLIND	
	*3-897-010-11	(Canadian,AEP,UK,E)...SEAL, BLIND	
8	X-2122-814-1	CABINET ASSY	
9	2-391-455-01	(US,Canadian)...BUSHING (CM-22C)	
	2-391-456-01	(AEP,UK).....BUSHING (CM-22B)	
	2-392-799-01	(E).....BUSHING, CORD	
10	*3-701-946-24	(Canadian)....LABEL, FUSE	
	*3-701-946-25	(US).....LABEL, FUSE	
	*3-701-947-15	(AEP,UK,E)....LABEL, FUSE	
11	*2-122-856-11	(US).....PANEL, BACK	
	*2-122-856-21	(AEP).....PANEL, BACK	
	*2-122-856-31	(Canadian)...PANEL, BACK	
	*2-122-857-01	(E).....PANEL, BACK	
	*2-122-858-01	(UK).....PANEL, BACK	
12	2-122-859-01	CUSHION, BACK PANEL	
14	4-846-520-00	RING, (TRIP)	
16	*2-122-846-01	PACKING, SWITCH	
17	2-512-409-11	BUSHING, CABLE	
20	*4-908-882-11	CLAMP	

No.	Part No.	Description	Remarks
21	*2-122-853-01	(US,Canadian)...BRACKET, OUTLET	
	2-122-854-01	(AEP,UK,E).....BRACKET, OUTLET	
23	*2-122-852-01	BRACKET, VOLUME	
24	*2-122-848-01	PACKING, VOLUME	
25	*2-122-867-01	(US,Canadian)...COVER, OUTLET	
	2-122-869-01	(AEP,E).....COVER, OUTLET	
26	*3-655-653-11	(US,Canadian)..BAND (TAITON), BINDING	
	3-701-748-00	(AEP,E).....CLAMP	
27	2-122-850-01	KNOB, VOLUME	
28	2-122-851-01	KNOB, SWITCH	
29	7-682-653-09	SCREW +PSW 3X20	
30	7-682-647-09	SCREW +PSW 3X6	
31	7-682-649-09	SCREW +PSW 3X10	
32	7-682-660-09	SCREW +PS 4X6	
33	*2-122-873-01	(AEP,UK,E)...INSULATOR	
34	3-701-947-10	(AEP)...LABEL, FUSE	
	3-701-947-12	(E).....LABEL, FUSE	
35	7-682-648-09	(E)....SCREW +PSW 3X8	
36	*2-122-836-01	CUSHION, VOL KNOB	
37	2-269-321-00	(AEP,UK,E)...COVER, SPARK KILLER	

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
901	⚠1-551-478-00	(US,Canadian)...CORD, POWER			
	⚠1-555-795-00	(AEP,E).....CORD, POWER			
	⚠1-558-032-11	(UK).....CORD, POWER			
902	*A-4518-323-A	MOUNTED PCB, AMPLIFIER			
903	1-533-183-11	HOLDER, FUSE			
904	*A-4518-327-A	(AEP,UK,E)...MOUNTED PCB, SWITCH			
905	*1-535-688-11	(AEP,UK,E)...TERMINAL			
C100	1-102-074-00	CERAMIC	0.001MF	10%	50V
C200	1-130-498-00	MYLAR	0.18MF	5%	50V
C201	1-130-494-11	MYLAR	0.082MF	5%	50V
C202	1-130-489-00	MYLAR	0.033MF	5%	50V
C203	1-130-471-00	MYLAR	0.001MF	5%	50V
C204	1-126-162-11	ELECT	3.3MF	20%	35V
C205	1-123-611-00	ELECT	1MF	20%	50V
C206	1-123-611-00	ELECT	1MF	20%	50V
C207	1-124-463-00	ELECT	0.1MF	20%	50V
C208	1-123-611-00	ELECT	1MF	20%	50V
C209	1-124-480-11	ELECT	470MF	20%	25V
C210	1-124-477-11	ELECT	47MF	20%	25V
C211	1-130-495-00	MYLAR	0.1MF	5%	50V
C212	1-124-477-11	ELECT	47MF	20%	25V
C213	1-130-495-00	MYLAR	0.1MF	5%	50V
C214	1-124-478-11	ELECT	100MF	20%	25V
C215	1-130-483-00	MYLAR	0.01MF	5%	50V
C216	1-124-293-91	ELECT	47MF	20%	6.3V
C217	1-161-041-00	CERAMIC	0.0015MF	5%	25V
C218	1-130-483-00	MYLAR	0.01MF	5%	50V
C219	⚠1-124-771-00	ELECT	6800MF	20%	25V
C220	1-161-772-11	CERAMIC	0.1MF	10%	25V
C221	1-124-478-11	ELECT	100MF	20%	25V
C222	1-130-496-00	MYLAR	0.12MF	5%	50V
C223	1-124-247-00	ELECT	10MF	20%	25V
C224	1-124-482-11	ELECT	33MF	20%	25V
C225	1-124-482-11	ELECT	33MF	20%	25V
C301	1-130-472-00	MYLAR	0.0012MF	5%	50V
C302	1-130-498-00	MYLAR	0.18MF	5%	50V
C400	⚠1-136-344-11	(US,Canadian)...CAP, FILM 0.047MF			
C400	⚠1-162-578-00	(AEP,UK,E)...CERAMIC 0.0047MF 20% 400V			
CN1	⚠1-526-794-11	(AEP,E).....OUTLET, AC			
	⚠1-526-882-00	(US,Canadian)...OUTLET, AC			
CNP2	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P			
CNP3	*1-508-796-00	PIN, CONNECTOR 2P			
D200	8-719-930-41	DIODE GL-3PG1			
D201	⚠8-719-300-57	DIODE RB402			
D202	⚠8-719-911-19	DIODE 1SS119			
D203	⚠8-719-911-19	DIODE 1SS119			
D204	8-719-911-19	DIODE 1SS119			
F1	⚠1-532-286-00	(AEP,UK,E)...FUSE, TIME-LAG			
F1	⚠1-532-744-11	(Canadian)...FUSE, GLASS TUBE			
F1	⚠1-532-745-11	(US).....FUSE, GLASS TUBE			
F2	⚠1-532-215-00	(AEP)...FUSE, TIME-LAG			
F2	⚠1-532-285-00	(E).....FUSE, TIME-LAG			
IC200	8-759-403-73	IC AN7161N			
J1	1-507-777-00	JACK, SMALL TYPE			
JW1	*1-535-303-00	WIRE, JUMPER			
JW2	*1-535-303-00	WIRE, JUMPER			

Ref.No.	Part No.	Description			
P1	1-558-605-21	CORD (WITH PLUG)			
Q200	8-729-600-27	TRANSISTOR 2SC634SP			
Q300	8-729-600-27	TRANSISTOR 2SC634SP			
Q301	8-729-600-27	TRANSISTOR 2SC634SP			
R100	1-249-405-11	CARBON	100	5%	1/4W
R101	1-249-437-11	CARBON	47K	5%	1/4W
R102	1-247-814-11	CARBON	200	5%	1/4W
R200	1-247-842-11	CARBON	3K	5%	1/4W
R201	1-247-890-11	CARBON	300K	5%	1/4W
R202	1-247-903-00	CARBON	1M	5%	1/4W
R203	1-249-417-11	CARBON	1K	5%	1/4W
R204	1-249-417-11	CARBON	1K	5%	1/4W
R205	1-247-848-11	CARBON	5.1K	5%	1/4W
R206	1-249-419-11	CARBON	1.5K	5%	1/4W
R207	1-249-417-11	CARBON	1K	5%	1/4W
R208	1-249-427-11	CARBON	6.8K	5%	1/4W
R209	1-247-830-11	CARBON	910	5%	1/4W
R210	1-247-846-11	CARBON	4.3K	5%	1/4W
R211	1-249-417-11	CARBON	1K	5%	1/4W
R212	1-247-840-00	CARBON	2.4K	5%	1/4W
R213	1-249-413-11	CARBON	470	5%	1/4W
R214	1-249-408-11	CARBON	180	5%	1/4W
R215	1-249-429-11	CARBON	10K	5%	1/4W
R300	1-249-424-11	CARBON	3.9K	5%	1/4W
R301	1-249-431-11	CARBON	15K	5%	1/4W
R302	1-249-419-11	CARBON	1.5K	5%	1/4W
R303	1-249-417-11	CARBON	1K	5%	1/4W
R304	1-247-828-11	CARBON	750	5%	1/4W
R305	1-249-417-11	CARBON	1K	5%	1/4W
R306	1-249-429-11	CARBON	10K	5%	1/4W
R307	1-249-429-11	CARBON	10K	5%	1/4W
RV1	1-238-146-11	RES, VAR, CARBON 5K (VOLUME)			
RV2	1-238-145-11	RES, VAR, CARBON 20K/20K (DBB)			
S1	1-571-329-11	SWITCH, SLIDE (INPUT)			
S2	⚠1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)			
S3	⚠1-570-173-21	(E)...SWITCH, VOLTAGE CHANGE			
SP1	1-503-909-11	SPEAKER UNIT			
SP2	1-503-910-11	PASSIVE RADIATOR			
T1	⚠1-449-325-11	(US,Canadian)...TRANSFORMER, POWER			
T1	⚠1-449-326-11	(UK).....TRANSFORMER, POWER			
T1	⚠1-449-327-11	(E).....TRANSFORMER, POWER			
T1	⚠1-449-328-11	(AEP).....TRANSFORMER, POWER			

ACCESSORY & PACKING MATERIAL

	1-506-401-00	(E)...ADAPTOR, CONVERSION
	1-506-589-11	PLUG, ADAPTOR
	1-566-494-11	ADAPTOR, PLUG
*	2-122-863-01	CUSHION (F)
*	2-122-864-01	CUSHION (R)
*	2-122-865-01	INDIVIDUAL CARTON
	2-122-871-01	FOOT, RUBBER
	3-703-390-01	(US)...INSTRUCTION
	3-769-892-21	(US).....MANUAL, INSTRUCTION
	3-769-892-11	(Canadian,AEP,UK,E)...MANUAL, INSTRUCTION

9-953-113-11

Sony Corporation
Audio Group

English
88E0687-1
Printed in Japan
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Published by A/V Engineering Service Dept.